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in account with
WILLIAMS & TRAVER

DEALERS IN
FRESH AND
DRIED GROCERIES
AND
Imported Delicacies

PHILADELPHIA, U.S.A.

L Jan 3 1900

Perched on a low, rounded, light-colored rock, a small, pale green lizard, *Pholidoscelis chalcides* esp., was basking in the sun. The lizard was about 10 cm long, with a broad head and a deeply forked tail. Its body was covered in small, dark, irregular spots. It had a distinct dorsal crest along its back and a lateral line on each side. The lizard's eyes were large and prominent, and it had a slightly hooked nose. It was positioned on a low, rounded, light-colored rock, which provided a good vantage point for it to observe its surroundings. The lizard was facing towards the right side of the frame, its body angled slightly downwards. Its front legs were tucked under its body, while its hind legs were extended slightly to provide balance. The lizard's tail was held high, curving upwards and to the right. The background was a soft-focus view of a sandy area with some low-lying vegetation. The overall scene was a typical example of a lizard's natural behavior, seeking warmth and safety in its environment.

~~Agriocampa~~ 341 ~~Agriocampa~~
~~L. agriocampa de l'obata~~
~~Glisicampa californica~~ ~~labeled~~ ~~with~~ ~~Belmont~~

San Mateo Co. Cal. April 13, 1898 Head pointed
black, very hairy except where the ocelli are yellow
whitish hair long, fulvous, up to 2.7 mm.

Body entirely black, except the tip of abd feet which
are pale, covered with long fulvous hair, quite
thick especially dorsally & laterally. It is
slightly keeled along d. line and tufted
laterally and on the segs. (in some types
with powdery blue in front over the clypeus)

Body almost entirely without marks: genae
have a double irregular black red d. line ^{interrupted in segments} &
& all have a series of o-d small blue dots, 1
per seg. in some obscure wanting on the
central segments. [hd 1.8, 1.8]

combs

lateral series of red dashes.

Corn Apr 19 of sick, oval, thin, but made
opaque by a fluid which dries to a yellowish
powder.

* and narrowly centrally on segs. a mottled with
the ground color. The hair are simple,
without branches, & taper to a point at
the tip.

Imago May 21 of Cat. n. 7317 Glisicampa californica!

Call. .49 .76 1.14 1.75 2.7 ratio .65
Tomed 4 7 162 1.75 2.7 ~~195~~ SIXTH ST. ³⁴² *Ogyia julozza* H.
Live oak ~~larch~~ *agipolia* ^{larch from Belmont, San Mateo Co.}
Ogyia ^{sh. hd. tree} ~~an oak~~ ^{Matsonville, Santa Cruz Co & Del Norte}
~~larch~~ ^{W. M. T. L. California}

Portland, Oregon

Black w. 4 mm. Body pale greenish (earthy to moss)
warts normal, (4) represented by pale dot (1) small,
all black, shiny, (2) one large w/ot swollen base
all heavily covered black hair, long from the
extremities & sides, feet normal, (On 3, 4 the
dorsum is nearly white, on 9 yellow & on 10 & 11
a large dark red d. spot, but no elevation.)
Another ^{sh. hd. 7.7} Hd black, line above mouth a trace of antennae
white w. 7 mm. Red black, (2) one large, but
heavily only admix hair, on 3, 4 & few pale d-
hair & on 5-7 a few black ones, covering over
d-line but not numerous enough for tufts
but all black, Rd. tubercles (on 4) large
orange colored. Dorsum of 3 & 4 pale yellow. of
9 darker yellow. Tip of abd. feet pale orange.
Hair long, black mixed with pale hair.

Another (at Monterey) Hd same, w. 1.1 mm. Body black,
laterally, the dorsum broad, pale yellow but
transversely streaked with black at the middle
& each seg, these bands becoming broader
post. till cover most of joint. Also black into
seg. 2 broadly on 5-8. Warts blood red, not

rows 5 & 6

195 SIXTH ST.

very bright, the anterior dorsal are partly black, the PORTLANDS, ~~LEGON~~ plumed with about 1 mm long. On 5 a d-brush tuft black ^{from upper part of} and on 6-8 white tuft, less well developed. Red tubercles on 10 & 11, large, confluent. 8th black. Other hair minutely varbed, black & white, yellowish dorsally as 3 & 4. Abt feed reddish ^{(Shd 1.75) wait} ① ② very small reddish ^(Shd 1.75) ③ ^{large} molt Apr 20 Ad 2 Black, dypers pale, labrum base & ant. pale yellow. Red black, plumed ^{than before, brown red size} pencils on 2 & 12 black, 2^{1/2} mm. Broad tufts on 5-8 larger than on 5, largest pale ^{slight shading} ② ③ ad side, those on 6-8 white. Front, bright ^{brown} brown red, rest. tubercles coal red. Body, color as before but the yellow dorsal band is broken by a black d-line, there is a yellow substg line ^{a yellow substg line} thru spiracles, all varbed, black & white mixed. Ad feet reddish at tip.

* along between the wait of rows 5. This pencils 3.5 mm, yellow rather less consistently as d, but, a substg row of subgrades to yellow spots and a few d ones, rather irregular & the 2 upper rows absent on 4-8. Brush tufts ^{large} nearly alike, white at the sides & grey centrally, the next 4 darkened & nearly black on the crest.

** The "plumed" hairs are furnished with spines oblique branches in the usual manner but the branches are longer and more numerous just before the top, giving the appearance of a plume or peacock feathers.

At III the molt Apr 23 (Sh hd 1.2, wait 5, 2, 3) new hd 2 mm

pencils 3.5, ^{large} dypers gray like II, ^{large} ~~legon~~. ^{red} indeed. ^(Shd 1.8)

At IV ^{small} molt Apr 26 (Sh hd 1.2, pencils 1.5?) new hd 2 mm

pencils 4 mm, brush tuft. on 5 black, 6-8 white.

On V ^{large} the like II (Sh hd 1.2) pencils 3.5 mm. ^{mixed}

another molt Apr 30. (Sh hd 1.3) pencils 4.5, tufts gray, black & red

On VI ^{large} molt May 3 (Sh hd 1.2) pencils 2.5, black tuft evolution

On VII ^{small} molt May 5 (Sh hd 1.2) pencils 5, tufts uniform pale gray

Molt May 5 (Sh hd 1.2) ^{no darker on crest} tuft on 5 a shade

May 5 Apr 28, 5 P.M. Head 2.5 mm., same. Body black,

with the down of 3 & 4 largely obscured yellow

except a black dorsal line, continued to 12 in a row of yellow sd spots, irregularly elongated ^{& continuing over insertion first m. legs}

transversely, a similar lateral & substg rows

the latter more continuous. Hair pencils from 2-12

4 mm long, the one on 12 preceded by a tuft of shorter hair. Brush tufts large, all uniform

gray, no one darker than another, blackish on the

crest & nearly white on the sides. Wait as before

② ③ are red on 2-4, even on c-shield & the wait too

④ are red on 9-11 little ⑤ is also red, ^{abst. feed crimson}

Lateral region irregularly tinged with gray:

* largely so from the whole of 12 to 13 below the pencil.

II began to come May 3. (Sh hd from 1.9 mm.) soon 7

electrified, thin, of hair & silk, one end lips partly open for emergence

of teeth mixed with hairs, thin normal. Paper May 6, 1 P.M.

III began to come May 5 (Sh hd from 2.1 mm.) Tufts ^{are other pale}

other molt May 6 (Sh hd 1.8 mm) pencils brown gray, not darkened at all

new head 2.7 mm (paler than I who has them nearly blackened)

Other II molt May 7, 6:45 P.M. (Sh hd 2.0 full) new head 2.8 at least

Tuft uniform pale gray, not darker on crest, nearly white

④ starts On 2 ① ② on flock ③ big fence ④ sets [mother] On 384 ⑤ ⑥ ⑦ ⑧ On
516 ①-③ @ minute On 7-10 ①-⑥ ⑦ ⑧ On 11-12 ①-⑤ ⑦ ⑧ [broken]
On 13 ② ③ ④ ⑦ ⑧

10660 PORTLAND, OREGON
Oster VI began to cover May 10 (first egg in cover) or

Otter ~~VIII~~ molt May 13, 48M. (Sh, hd. 2.0 mm) Tuft, gray.

After ~~VIII~~ began to cover May 17 [died before finishing cover]

Phpa cylindri **1951** red & black ant, abd
tapering. **SIXTH ST** **PORTLAND**, creases long but
wide, terminating in double **REGON** above both

silk of cocoon. L. 12 w 4 mm. Color black, shiny.
There are several rows of flat granular areas which
represent the larval nests & bear a few hairs &
3 dorsal tufts of short dense white hair on the
2nd-4th abd. seg., representing the mouth tufts of
lara except on the back where it is brownish & in
the abd. tracheae nearly white.

* but ♂ is so small as not to be noticeable & ♀ is undifferentiated so that the only conspicuous parts are ♂ & ♀ bright red and ♀ brown, ♂ very smaller & relatively inconspicuous
I began to comb tree 8 (Sh. hd. from coon 2.6 mm) Coon like to hit with more care. As if on back of leaf, with threads to hold leaf on (Spur on coons next some pine needles) ♀ pupa May 12; a fine ♂ pupa, cases 8 and 1 small abd, but only 3 of the 4 dorsal tracts. Pupa nearly black.

IV began to ecom May 6 (St. lid. from cover 3.0 mm) ♀ pupa
V began to ecom May 9 (St. lid. from cover 3.0 mm) ♀ pupa

Began to con May 23 (shell from con 3.0 mm) ♀ pupa
♀ Puff large, especially abd. centrally, this con�
small, sternum well developed, Cases moderate Color
dark brown, many black, ornamented as in ♂ 786

In Eng. May 30 ♂ II Im. Nightly ♂ III May 26 ♂, IV May 28 ♂

~~V~~ June 3 PM ♀ ~~VI~~ May 30 ♂ ~~VII~~ June 12 ♀ ~~VIII~~ June 14, 1934
~~red off coon string~~ fell off June 7 eggs hatched 5-26-18

Calc. .5, .65, .85, 1.1, 1.4, 1.86, 2.4, 3.1, 4.0 rad. 77
Found - - - - - - - - - - 3.1-5. 3.9-4.3
343 calc. 3.0-3 3.9-4.3 rad. 77

Monterey Cal. Apr. 14, 1892. 'Sote'? Hd block with short
[dead] hd 3.9, 4.6 mm) 4.2, 4.3, 4.0, 4.1, 3.9, 4.0 ^{4.0}
black hair 3 mm. Hair mottled, (2)(4) & (6)
(7) & (8) on ventr. 5.6, 10.12, 13 mm. (5) small
fst. body & wants block. Hair spreading,
of irregular length & not very thick, over the
lateral region. Horn block is whitish winged.
On 5-12 [from ①, a series of short velvet block
tufts & from ② (or upper side) a series of
slightly longer tufts yellow hair which
with the black tufts are keeled along a line.
On 5, 6 & 11 from ③ a black pencil (3 mm,
about as long as lateral hair) the one on 6
slighter than the others. Ends of abd. feet
mottled with whitish. There is some
variation in the amount of horn in the three
lateral hairs. Some are quite horn, others nearly
white, but the hair ^{is not} even obscures the black
body. The lateral pencils vary in number of
hairs, in some the one on j. 6 is obsolete.
Otherwise there is very little variation
(found on ground stumps of pine; not seen eating)

Smaller size same but hair rather less. The
jewels are smaller, consisting of hair few
hair & the one of 6 often absent. Hd 2.0.
3.0 3.1, 3.5,

Pupa cylindrical, abd. much larger than tho., with a depression between eyes prominent; a tuft of curved hair at end of abd; abd. resp. motionless. Smooth shiny light red brown, blackish in the heavier cases colored. L 19, W tho. 6.5, of abd 8 mm. Adults one begin to come on corn of top corn of hair and side as in *Halisidota*. Corn 30 x 15 x 15 mm, elliptical, thin, made like cayucos but much less hair, as there is less on the larva. (One ate the pine in top)

*The black tufts grow from an elliptical area of the skin occupying the place of ① & extending also with broadly another similar area just above & partly encroaching on ②. The yellow hairs are the same in structure as all the other ordinary hair from ③ & the lateral want, & are about $\frac{1}{4}$ the hairs of ①, merely differing in color.

On 2, 3 th, hemispherical, black & shiny, impressed centrally ③ & d ④ stig ⑤ 2 v. On 3 & 4, ② - ⑥, tho. ⑦ small. On 5-12 ① obliterated by ⑧ hair patch ⑨ post, elongated by hair patch, ⑩ ant., ⑪ post. stig; ⑫ ant., ⑬ post, with or a large, ⑭ two small but ⑮ minute on venter of 4, 6, 11, 12 and 13 ant. On 13, one large ⑯ want, as if of 3 coalesced & one ⑰ and ⑱ pair on anal plate. Under glass the hairs are all furnished with many short branches pointing toward end of hair at 45° . Generally longer on black hairs. ~~Also~~ at Albina Oregon same but lateral hairs all brown. Oregon June 12, 1892. Cat. no. 7483 *Halisidota argentea*

Cale.	1.1	1.6	2.2	3.2	4.5	ab. 7.0
Call.	1.0	1.4	2.0	2.8	<u>4.0</u>	ab. 7.0

7 344 = 323 See 378

Pseudohajia clementina? on blue Ceanothus, Monterey Cal. Ap 15, 92. (Hd 1.4, 1.7, 1.9 abd)

On 3 hd 2.5 sat black suture of abdomen, latrum of ^{of} ~~each~~ but hair hair whitish body entirely black, spin 4 rows 2-6 $\frac{1}{2}$ II, 3 rows 7-10; on 12 1 dorsal 2 rows on 3 1 dorsal but none on anal plate & any part of joint feet & 3 rows. Spines black with many closely set branches, yellow each tipped with hair. Row ① on 3-12 are short and the branches more closely set, making them appear more like bunches of bushes. On the skin of body, are short whitish hair ^{top} or ~~edge~~ of black faint traces [what is d. ~~sd~~ & sub the line [shd 1.6]

Another hd 2.5? 3.0 lame. 2.5 2.5, 1.6 lame (shd 1.2) 1.5; Hd 1.1 black with a few hairs; body purplish black, the spine same but rather longer in proportion & less closely branched, while the branches are all black like the spines except three of ① on 2-12. molt Ap 22 Hd 4.0 (See 323) [shd 2.5] [shd 2.8 new hd 4] [shd 2.5, new 3.9]

Little one shed May 1 shd 1.2, new hd 1.6 mm. Shed again?

Coated June 5

June July 14

Calc. .7. 1.0 1.5 2.1 3.0 sat. 7.0
 Average lds.: .6 .9 1.5 2.1 3.0
 There is evidently a slight diminution in the ratio of growth as
 the larva gets older. 345

Camptisimilis Open
 Chiricahua mts. on apple orchard, Montezuma Co.
 Cal., Apr. 16, 1892. Hd black, labrum & bases of
 antennae whitish; covered with rather long
 whitish hair. W. 14 mm. Body black, with a narrow
^{pale} blue d. lin., each side of which is a broad
 irregular orange band, bounded on the
 center of the seg. Lateral region pale, grayish,
 defined by a yellowish lateral & stigmatal
 line. Abd. feet tipped with pale orange
 joints 2 all black. Hair long, irregular, not
 distinctly tufted nor keeled, red on its
 dorsum, white laterally.

~~Stage~~ 1st 18 mm. Same, but d. line among all
 black, the sd red line more distinct & also
 the lateral pale line. Hair less well developed
 but colored the same.

~~Stage~~ Hd. 6 black with a few pale hairs. Body black
 with 2 reddish yellow sd. lin., broad & irregular
 at the outer edge. Lateral region pale with a
 lateral & stigmatal pale yellowish wavy
 line bounding the pale space. Hair thin,
 long, pale brownish. Joints 2, 3, 12 & 13 are
 nearly all black, the marks being obsolete

Calc. 55-60, 83-92, 1.3-1.4, 1.9-2.1, 2.9-3.2 ml/pb
 Found .6 .9 1.4-1.6 2.0-2.2 2.8-3.2

Thoracic feet black; abd. pale at tips.

~~Other~~ Hd 2.7 Hd pale blue speckled with black,
 labrum & bases of ant. whitish, jaws black.

Covered with blackish & white hair. Body black
^{hairs in man light}
 dorsally, with a d. pale blue line, rusty red
 d. lin., duplicated by a few dots on the post.
 of each seg. A series of small pale blue sd. dots.
 Lateral region pale blue or gray, bounded by
 thin yellowish or gray lateral & atg. lines.
 Dorsal hair red, lateral white, somewhat
 tufted on the segments ant. (Abd. hd 1.5, mea.
 hd 2.0 ^{2.0 ±} 2.1) Sh. hd 1.6 1.5, 1.4, 1.6 [fig. mean 88263]

Head lds. 1.4 1.5, 2.2, 1.4, 2.0, 2.1
~~Hd 2.8, 2.9, 1.5, 2.0 Hd pale blue with numerous black
 spots, becoming darker joints of antennae
 yellowish whitish; especially at vertex, thorax white
 hairs w. 3.2 mm. Abd. black, largely tufted with
 pale blue-gray as the sides, and with a row of
 sd. blue dots 2 per seg., the post. are powdered down
 into a trans dash, mostly reaching the lateral blue
 region. A d. bluish white line much broken
 and obsolete on 2, 5, 6, 11-13 (in the spec.) A sd. series
 of broken line, triple w. quoditell on the post. part
 of seg. single ant. orange; a paler broken
 lateral line just above the blue, all waved.
 Hair quite dense, keeled slightly d. & tufted lat.
 ant. on seg. red d. but pure white lab. Feet
 bluish clasped reddish (Hd 3.0) (Abd. hd 2.4) [head lds 2.2 2.2
 1.7 1.9 2.0 2.15 1.9 1.6 1.6 1.5 1.7 2.8 2.3 2.0] [Sh. hd. 1.4, 2.1] *On each joint
 except 2 in some but widely broken in vicinities, absent in others~~

346

Dierces agnfolia

Little Apatea? on live oak, Watsonville, Apr 17, 92.
 Hd. 4, pale brownish, the claspers nearly white.
 Body with vast small, apparently normal, con-
 whorls, each bearing several black hairs, most
 short but a few near ends, long. Entirely
 pale brown, with a whitish dorsal shade
 through the center of which run a brownish
 line, & dorsally and 13 shaded blackish
 lost

345

Differs from 263 in that the blue does not go above
 the lateral line, thus not absorbing the 2d blue
 dots as it does in 263, and not forming a sub-
 graduate black spot of the space between the
 dots. Moreover there is in 345 a broken dorsal
 bluish line, more or less well developed, but
 sometimes absent. One began to come May 10, com-
 as usual of yellow silk, thin, oval. Pupa.

347

(Pupa cont.) Line like an eyebrows; between them two
 small dots, ant. of which is a medium dark spot,
 the black angular marks. On the abd. is a series
 of conical pale orange tubercles, representing the
 spines of the larva, as follows: - On dorsal series on
 abd. joints 2-10, ① a s.d. series 1-9; ② a lateral row 2-10
 (or row 5-9 by a double row below this 5-8,
 hardly more than spots besides a few ^{obscure} orange
 vertical spots. Rows ① & ② are each bordered on
 the ant. side by a curved black line and there
 is a transverse row of black dots on each sg.
 somewhat confused & confluent on the small
 terminal segments. L. 17 mm w. 6 mm.

[342] ~~342~~ ^{hd} Thora small, legs slender, antennae small,
 short, bipectinate; wing aborted, but fully 5 mm long,
 narrow, veins clothed with solid white hairs mixed
 with a few black scales. Abd. very large & robust,
 covered abundantly with white down below,
 obscurely banded with cinereous segmentally.
 Back thinly clothed with solid white down,
 the dorsum of the body showing through is a
 broad pale cinereous band on both thorax &
 abdomen. W thorax 3 mm. Abd 9.5 mm. Length
 of thorax 3, of abd 15 mm. ~~Same~~ but more hairy on
 back so that there was not a perceptible band.
 Quite cinereous beneath, even a little brownish
~~was~~ was dark cinereous with a brownish tinge.

Melittaea on strawberry Watsonville, Apr 17, 1892.
species of lobes angulated

Hd. black, roughened with many hair bearing tubercles w 2.5 mm Body black, densely covered with white granulations which bear numerous short white hairs. Spine short, conical, densely covered with black bristles, the slants black except the dorsal one or 5-12 which are orange. A black dorsal line 3 transverse lines per leg crossed by the distribution of the white granulations. Below each spine $\frac{1}{5}$ (3) on 5-12 an orange spot. feet black, the ends of the abd. ones greenish.

Calyxalis Abd. much bent forward so that crenulae points at rt D wth body, tip very, thorax sloping back from head rounded, enlarged a little post.

Case well developed; eyes prominent. Color pale ashy green, nearly white curiously marked with black gray-yellow as follows: - Antennae & tongue cans black ring with a curved black band from base to int. 2, interrupted by yellow on the veins, a row of 3 sub-marg. black annelons spots edged with yellow above the band & 4 or 5 spot. below it, 2 sub-marg. the other median. A few black spot on hd & collar. A pair of sd elevated yellow spot on thorax, each surrounded by a curved black

May 21, 1892. *Melittaea chalcodon*

Eggs Portland Oregon, probably of noctuid A (see cat.) Shaped like upper $\frac{2}{3}$ of sphere, base flat. covered with vertical striations, color shiny pale green, diam. .6 mm. Under the microscope there are seen to be formed by irregular grooves which become less numerous toward the microvilli becoming confluent. Then edges are fluted as if they were formed by a series of contiguous confluent punctures.

[Egg from body of noctuid A can not be distinguished.] [Apr. 23 got a few more which were the same]

Hatched May 5 Hd slightly bilobed, black, shiny. w (shhd. 3) Body whitish with minute black fuligin dots. The feet each black; anal plate & abd. fat blackish fat normal, but they loop slightly in walking, & the 2 ant. pair of abd. fat seem less used than the others, the pair on j. 7 being smaller. 12 a little enlarged.

May 8 ate maple. Molt May 13 Hd same w 5 mm body brownish

blackish green color thru fat block. Ptl. dot large single black, setae short fine. anal plate blackish. feet nearly normal. faint trace of a greenish sd line

(Then them out May 27)

dead hd. 9

Egg 11 d. I 4½ d. II 9½ d. III 4¾ d. IV 3½ d. V 5 d.

Cpt May 25 (892)

195. SIXTH ST.
349

Egg from ♀ *Ophelia portlandia*, Portland & light
195 SIXTH ST.
Apr 23, 1892. Hemispherical, base flat; non
lustrious whitish green: diam. 1.2 mm.

Under microscope densely covered with
minute white granulations except at the
micropyle where is a single larger grain
surrounded by a pale green ring ^{from which} the grains ^{are absent}.

Hatched May 4, 6 AM. Hd slightly bloated, black & shiny

labrum paler, slightly whitish; a few pale hairs; w. 1 mm
J12 is hardly perceptibly enlarged dorsally: body cylindrical
diminishing a little in size post. No trace of caudal horn*

Body pale white, the feet black, all feet, except the last
pair blackish outwardly. Setiferous dots, concolorous,

setae pale, short. Feet normal, anal pair ^{is walking} used

Hatched by eating a hole on side of egg. Rested on upper
side of willow leaf & began to eat a sprig. (May 4, 9 AM.
as at adv. the 5.50 PM) Anal plate, tail and feet outwardly, & pubescence dots become
~~black~~ black. Dots large & distinct ① & ② almost in line ③

③ lateral, ④ & ⑤ ventral, smaller. ② becomes more enlarged d.
When at rest the extremities are raised, the two ③ anal feet being lifted off the leaf

Jons 12 single dorsal (large on 12) two in line on 13. On 12

the single d. black spot on 12 two setae arising from it, but
on May 6, 9 AM its appearance had not changed - no purple patch.
Assumes a greenish color by noon May 6. May 7, 6 AM 2 headed;

a faint purplish shade around dorsal dot on 12 & some S-V purple spots

May 7 May 8, 12:15 PM. Hd hand bloated, rounded, narrowing a
little to vertex, ~~upper surface of~~ depressed: jaws & occipital black

Smooth shiny pale green with a few hair: w. 1 mm. (Sh. hd 1.0)

Body slender, cylindrical, with a short rounded-con-
ical process on 12 dorsally, bearing the 2 setae ① & ② almost at
its vertex. Other setae firm, blackish, situated as before

39482 - *Scutiger* sp. - 4,7-11. dorsal. male
The slender body is elongate, the vertex not
narrowed, the head slightly elevated. The legs are long
and slender, the tibiae an odd foot long, narrow
and articulated near the base, the tarsi white. Body
pale yellowish green, 5th foot blackish, a dark red
line along their bases, surrounded by several short
dark spots, and one on a faintly purple stripe
of the same place, also from the base, right angle
at the joint of the tibiae. The vertex is pale
yellowish green, the sides are very pale
and appear purple when viewed. The head blackish, green
at the base of the antennae, the base almost entirely
black. Head 13 mm. (3 mm. ^{wide}) broadened towards the middle
above, slightly dilated as seen from before, flattened
in front so that the lateral parts are not more than
straw yellow, not shiny, yellow ^{purple}, brown, tan
yellow. 5 mm. 1.5 mm. 3th cyl. divided, the two sides
bearing a small process on the straight part about 4 mm
long. Setae short, pale, arranged as before, 0 on the
dorsum before 3/4 of body, their bases slightly elevated
but otherwise over body uniform pale green, yellowish
at the sides, are scattered purple and a band
along base of legs, most well developed on the tho.
legs. Spiracles black, setae pale. 10 mm. (8 mm.)
Hole blackish, 2 mm. (1.5 mm.) long, 1 mm. wide,
all fully developed before the anterior leg, except the two in head,
green from very minute black dots, seen with lens.)
Setae

The becomes little later the English
bedding ground of the whole British region, and
may, as I have done, leave the dorsum broadly
greenish. yellow. 2 all green adjs written between
the lines. It float him straight up over whom or where he was.
He May 7, 73 97, 111 shot his first yellow-green
shay, slender with white dots down on the sides. The
front, well known, goby fish, and some other
taken, collected, 125 mm. body slender, 12 enlarged
at a thick, conical anterior being over very large

365. *U. S. A.* The egg whitish green, defined at the top from the yellowish
green lateral regions; a yellowish oval band, below which dark reddish or brown
color, runs east 2-3, N-E, out a little beyond 7-10 mm. Dark red, near
black, with very faint thin brownish stripes. Spinal processes pale centrally,
no feet visible above, with blackish brown stripe centrally, cont'd. back on bases
of legs, fine sides of gills. 35° lower f. 100.

A single egg, Portland coast, Apr 23, '92. Rather less
than hemispherical, flat at base, smooth
and shiny, pale yellow, nearly white. 2.8 mm.
Under ^{micro} f. 100 it is seen to be densely
covered with numerous faint circular prints
which are very small, hardly distinguishable
on the upper part of the egg even with f. 100.

pointy straight up

base, and 195 FIX-14 ST e minute denticles
setae. legs about 1.5 mm. smooth surface on body, except
from end of OBD and conical stiff points, now
of latter configuration, though ~~smooth~~ ^{sharp} ~~now~~ ^{now} broad
body is green, except on 2 & 3 ^a streaked with purplish
brown in a diagonal band, rows 3 laterally; lateral
region from 3-4 to 6-7 stiff streaked with purplish
brown bordered below by a more purplish black
& emphasized on the bases of all the pair except
the anal by a nearly black shroud. Feet purplish,
green green, brown purplish brown with a thin
ringy band to 2nd node on 12. Spineless blodds white
entirely surrounded by a broad white ring, ex-
cept on 2 where the spineless is nearly white.
Anal plate large, green, but quite smooth and
inconspicuous. Legs ^a broad purplish with spines
stiff, the last 3 there is less white at bottom. Flat region
between the legs each bear a large oblique black, pointy
sting w/ up. colored hind purplish with a dark purple
brown stripe down one side to below spineless. Total length
N. 5 mm. before 5-6 th Hd. shaded with a brown, greenish
shrub. The head flattened in front. Green but covered
with a brown shade except over the clypeus (a

Mar. 26 1916. wounded (shot) near surface. Shiny black, having, ^(1st to 1.8) width of eye each with a bar, & other somewhat shorter bars from the body. Body rinnom black, with pale yellow dorsal patches on 3, 4, 6, 7, 10 & 13 and ventrally on 12. A dark ~~black~~ streak and which are a few yellow markings on the dark rays of 2's ventral largely yellow. Other parts of

* O's orange on all the eggs Nos 2 & 4, but very small & inconspicuous, + spot on all eggs. ~~most~~ diet on 3-5 + orange spreads far apart. O's 5 adjacent molting, hardly confluent. Cleavage with ~~marked~~ every 2 o which is dark on the yellow spots. Silky all blackish. The warts bear several hairs, but only one is long. The hair shorter & comes more from the base. Late a narrow broken waved line along O in yellow is a little enlarged dorsally. Yellow pale on 9-10 extends faintly onto 11. A yellow broken triple stripe blue, blue, dark, only on yellow eggs, + some with more continuous yellow mottling along sulcus edge. Molt first Ad rounded, cleaves downward, margin entire deep. Hair short, dense, white + black. Slight glaucous wash out in the depressions around mid. antennae; W. 3.0 mm. Post. rather large O's O on 3, 4, 6, 9, 10 + 13, + the first 4 warts whole length yellow, others black. 5-6/12 enlarged & black, purplish black, a broad dorsal yellow band the whole length except on 2, 5-6/12, containing a broken triple d. line & faint on 7, 8 & 11. 5-6/12 velocity black d. Red 3rd foot, purple black, the 5-8 region included except at warts. Hair dense white, fine short hair from the body with single, also, a longer & stiffer ones from the warts, much as in *Bataca*. Tail very light, irregular broken super- + sub-sulcus yellow line, velvet black apart. Lateral on 3, 4 & 5 || Late broad pale gray d. band very faint triple d. dark blue dots seen, darker, warts. O on 3469. Bright, + d. hood pale blue band heavily mottled with brown black 5-6/12 d. & lateral spot 3-5 velvet black, head mottled, sup. orange stripe band + divided by an irregular velv.

.38 .54 .77 1.1 1.57 (1.88) 2.25 (not. 70
found 4, 6, 8 11 1.5 1.95 213 (not. 836)

3572 Nov (892)

cat no 7473 Take the body, brownish-white, mottled with black.
Egg of *Hedysarum occidentale* from Mt. Tamalpais. July 16 Found along stream bank on south side of
Mt. Tamalpais (School Hill) (School Hill).
Cal. subcircular, flat at base, smooth, color brown, 10 mm. Body white, hair all
shining pale yellow; diam 8 mm. Yolk blue, eyes brownish with faint reddish
dots in pupillary region, perfectly smooth. + d. Hair brownish tan, coarser than body.
Shell transparent, head cream, hair curved spirally, etc., 1/2 body, irregular loops. Hair pale, even, smooth &
flat. Palps 2nd & 3rd slightly bilobed, black, others white. 4th palpate, 1/2 black
body, several, white, 1-3 black. Hair directed upwards with hair from 12-13.
style from the caudalous parts, black. Yolk A-6 fine, 2-3 mm. long, 1-2 mm. wide,
the veins black, very distinct, pink body. Hair brownish tan, 1-2 mm. long, 1-2 mm. wide,
very pale brownish. Site grass & clover. ^{gutters, corners, walls, cracks, crevices, under stones, etc.}
Moll. 1st & 2d bilobed, shiny, light brown, eyes black; w. 6 mm. Body very pale brown, with an obscure
slight whitish line, hair large with many long spiraling blackish hairs. C-sh & mouth black. Hair light black, pale brown, hair short, black
when dry, brownish when wet. Hair white, hair, dried, white, when wet, black. Hair
ground with white & black as seen with the glass.
Black skin & vertices of wings & mouth.

No 3 - 58. Hd & Club, shiny pale brown, black in front centrally, on vertex, occiput, back, legs, body w. 8 mm. Body brown with a darker broad white st. line. Later body & hair central stripe black above, on lines with very large, black, with abundant long spreading black hair, especially long front. Club shiny blackish brown, with half & dozen from 12-13 mm. length, projecting, top black & bottom very long white hairs from 10-11. Margins black, with white hair under the margin.

4. Brown Howard, (244611). Body brown, darker towards middle of back; stripes brown, well defined, on white. The brown color will be somewhat mottled on the sides.

~~Experience - Lorraine (B) 1958 N.Y.C. - King, Young and Wash.~~

~~Upper Ohio River~~, (near) Dr. B. C. July 1, 1912.
A little elongate smooth egg nearly spherical, with a pointed apex, slightly
swollen with a pale brown, granular, soft shell.

From, Mr. Lord, closely up the roadside from
(S. Ed. 55) to a very great distance.

At 10:30 am I started along back way. Had to

5. *Scutellaria* (L.) Benth. var. *lutea* Benth.

وَالْمُؤْمِنُونَ الْمُؤْمِنَاتُ وَالْمُؤْمِنُونَ الْمُؤْمِنَاتُ

10. The following is the list of persons who have

work at my stage, as more funds, you feel.

Answers will vary except for question 1.

to - refugee status ✓

All About Poetry, Grade 4

white spots on 2-4 of the lobes of the ventral

or a probability distribution (with known parameters).

What I have done is to take the best of each of the two systems and to combine them.

Black. The next one doesn't have

and it is taken as a measure of the

called 110, 115)

As well as many other species

and for a while you may be able to get away with it.

patch, bounded by a narrow black line. Below

seen fat, ginger, & the like orange, with bottom

orange values from 2d matrix for 2. Spherical

between the last & a bad time, both which
I think took place.

(4) This design is transferable to other media for 9, 36, 100, 200 & 300 mm.
Gel agar will take around 50% die down over 30

Blackish brown blade & white marsh leaf (Fig. 2) (var. 2)
Siliques long, slender, curved upwards.

~~Planned to have. ♂-♀ Bush Cuckoo, blackish brown, white below, from Upper Ind., Ceylon. Length 56 mm. Found 2 males on 7th March. One black, ♂ + ♀ white. Minot's blackish, black 2.1% (slender 2.0 2.2 2.3) 19° C. 2.3 in 35 A. 5. 2.1 mm, Hd shiny black brown greenish.~~

second white d. on 2-4, second grey d. brown
black on 5-8 & more mostly 10-13. At back
and neck grey & on 12 d. below pale yellow.
On wings black. In ♀ d. one orange streak. In
all pale orange. Length about 100 mm (300)
in ♂.

have been left in 3 to 4 weeks, no 15 gal
per min. Block about 1.5 m. long, the rest to be
preceded by some shorter but equally rough blocks.
The last block is a larger one, roughly
square, resting on 3 or 4 smaller, not taken
away from the rock.

B. 5. Between 1st & 2nd main, 1st valley
bottom. The soil is dark brown sandy loam
which has been washed by water
and washed away. The surface soil
is light brown and sandy loamy.
The orange streaks of clayey soil are
overrunning sand and the orange streaks
are left. ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

You can see the typical yellowish-green color of the
feathers in the middle of the back. The feathers are
soft all the way down, the 2-pal. ones greenish,
the bar longish, yellowish, the wings ones black
with pale gray; and yet whitish feathers.

B6. 15. No straight line by first pair, face yellow
with white, w. 2.8 mm. Head pinkish brown,
brown, black pencil from nostril about 1/2 way, nose
blurred, white pencil, mouth slightly above
eye at the rear in O. Mouth top all white, to
front pinkish yellow; often very white &
black mixed. Back dark grey with some
markings in 3's separated by a narrow white
band; a red yellow patch on ventral side
of gill covers. Gills 5-6 broad, pink, no white
black along 9-12, last 2-3 on right side a white.

② very craggy & s. ③ large boulders large
pebbles. Many smaller cobbles. fine tabular sand.
~~After~~^(50, 50, 100) (the 12) down slope to beach over brown
very black, but - geotextile boundary at 1.8
white sand-colored sand. The top layer white
fine sand, yellowish tan. ~~then~~^V 3 cm thick
yellowish tan. 3 cm thick
yellowish tan. 1.8 cm thick. no signs of lateral drift
Aut 67. The ⁷ ~~6~~ 1.8 cm thick sand has a lot of
white, sandy gravel, no traces of lateral drift & it
looks very much grey limestone, mixed with fine

~~seen up Shallow Roads~~ - ~~steaks~~ ~~one of~~ ~~and~~ Grafta on nettle Nanaimo, B.C. July 1, 1872 Hd bilobed
bisymmetr. eyes, ~~no~~ mouth slits, ^{and black above} with a branched process at vertex each lobe, covered
with a median edge with a mid, the other with elongate tubercles, each bearing a hair - all
not well defined, except 2-3 on each lobe black except a white line down the entire & the
gills with long, brownish bristles along them: no worn body black, with a very broad
l. - 7. The bar larger, wider, elongated, ⁸⁻¹² ^{long} with a ^{white} ^{black} band, extending to spine 2 back on
bars. Fins very pale, nearly white. Pectoral greyish by the black point color on 2-4 & 12 and absent
between them, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 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size, small, white, two or three brown. Body
of nestling July 26, covered with brown fuzzy hair, not dense. Below
feathers on the breast don't form a distinct dark area.
Band on the skin a worn through, the molt taking place pale (Sd 15).
On July 27. C. took a

Calc. 44.66 1.0 1.5 2.3 3.5 nat. 66.
Found 5 7 1.0 1.5 2.3 3.4

The hair is white, but can be activated by
heat to show.

360

~~abn~~
~~abn~~
~~abn~~
~~abn~~
~~abn~~

abn dots, 10-12 mm. long, not touching,
interspersed between 12 Hd blocks along, w. 5 mm. body,
yellowish white, ash, and pl. & variegated black; foot same fine black spots. Hair apparently normal for Hal., 0,0.
② 12 mm. flat, more other to be made out. On hair spreading, a long, especially at extremitie, of a
row each. A deep black vertical line on the outside pale yellowish, but the 5 or 6 hairs nearly
of each pair, with the abdomen.

~~abn~~ ^{several} abn back, hair white, w. 5 mm
and the row of 6 hairs black, 2 d or 5 d, from ② on 12. On 6-10 a side of five small black
hairs some broader on 2. Hair of ② concolor. Hair of ③ on 11 &
the top of the head, pale yellow, a few
black, the rest white, hair spreading, the
extreme, white, over a few others, black
as on 4-12 and on 2 d, hair on 6-11.

~~abn~~ ^(abn. 60, 61) ④ 30 Hd entire, shiny black, w. 24 mm. body
varius concolor with the hair. Center yellow with
a slight orange tinge, the yellow & orange mixed, rays
black on 5 d & 12 d, on 11 flat & 12 d, white long, 2 from 3 2 ap(7-9) to 8 2 ap(5-12) in extent, but the
concolor. Hair yellowish white, black on 5 d
12 d. & a few on 5 d all with 6 hairs, ad to
tufts on 6-11. Hair mostly of even length, but
a few much longer white one and from

the extremities (ad. 2-5 & 12-13 from ②-3) hair
told brown in side of ② mm. hair to normal, ③ minute
hairs had all white 2-5, 11-13 black, with the body
around them & hair largely blacked long white ones.

~~abn~~ ^(abn. 60, 61) ~~abn~~ abn nose & tail
white & whitish, body pale yellow except near

whitish, whitish. Body, pale yellow except near
foot same fine black spots. Hair concolor with body
blackish. Hair apparently normal for Hal., 0,0.

④ 12 mm. flat, more other to be made out. On hair spreading, a long, especially at extremitie, of a
row each. A deep black vertical line on the outside pale yellowish, but the 5 or 6 hairs nearly

of each pair, with the abdomen.

white. On 5 or 6 a black & keeled tuft, with

black hair shot from ② on 5, ③-④ on 11 &

12. On 6-10 a side of five small black
hairs some broader on 2. Hair of ② concolor. Hair of ③ on 11 &

the top of the head, pale yellow, a few others black, the rest white. A few square tufts 6-10. The other hair

only black tufts & on 5 & 12 & orange tufts 6-11.

~~abn~~ ^(abn. 2-3, 7-9) ④ Hd entire, shiny black, w. 24 mm. body

varius concolor with the hair. Center yellow with
a slight orange tinge, the yellow & orange mixed, rays

black on 5 d & 12 d, on 11 flat & 12 d, white long, 2 from 3 2 ap(7-9) to 8 2 ap(5-12) in extent, but the

dorsal tuft are deep bright red on 7-10 (or 7-9 when

young) and are enclosed in the black. White the tufts on
5, 6, 11 & 12 are black on those where the yellowish

exterior) black 2-6 & 10-12 or only on

* much color of *N. maculata*

2-4 & 13, with thin pencils of long white hair.

from nearly every want, some very big, but angles.

[On the very black one, 2-6 and 11-B was solid black]

10 many all black while the d. tuft on 7 was lighter

black and on 9 part, as, leaving only the base on 8 red]

at the central base were mixed with red.]

~~more reddish~~ 11, black & 6, 11-B, lateral hair orange,

in one, largely orange in the other, the 4 d. tuft black.

the middle ones of 8 & 9 containing some red hairs.

Their sides sides had the d. tuft red as others.

Is compared with *N. maculata* at Lathrop's same age,

Hair deeper yellow, more orange & central d. tuft yellowish

yellow, on the exact point, back to 8 the black with

@ 5511 does not project at all like a pencil as it does in macula

tufts are not filled by 6, ends & 3 with black with fine white

with central hair black, ends & all fine dark crimson

and the 6 & 11 & 2-5 red black, lateral & ant. white

W3.5? mm. Red black at ends blackish ^{lateral} ~~lateral~~ ^{upper} black

hair black, except 7-9 where it is reddish golden

yellow with a few black hair separately, then

d. tufts. White pencil long & numerous from the

black parts, feet pale. Hair dense & soft?

5-8, which is red to 10, & orange 6-11 & 1-10 ^{more} ~~more~~

perfectly, the 10 mark 6 distinct black tufts, then

black with more traces of, only a very few black ones,

so all black in both, & pinkish white, also few pale

black, & some white, & some black, & some white

black, & some white, & some black, & some white

black, & some white, & some black, & some white

black, & some white, & some black, & some white

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black, & some white, & some black, & some white

black, & some white, & some black, & some white

opd 1893
92

351 *C. fragilis*

~~Ammodramus~~ at Mammoth Hot Springs, Wyo.,

July 14 1892 on 10 nests, 9 on wild currant, 1 on wild

rose. Nests as usual, full of dirt & dried

mat. Also allied to 356 (6. in this) Red blue gray

spotted with black, mouth & ends of ant. black,

below & base of ant. sordid white. Molt 3 mm.

gray a little enlarged at 1/2, 13 small. Ground

color black, a broad pale blue d. band, broken

at the seg. incisives & narrowed a little at both

edges of each seg., absent on 2 & 13. Orange s.d.

marks much reduced, scarcely noticeable,

consisting of from 1 to 3 narrowly linear, wavy

or broken streaks. 3d blue dots 2 per seg. very

large, subquadrate, either separate or confluent

on their upper sides or else with the lateral

blue gray area, but always leaving a row

of black patches, one in the middle of each &

all well developed there. The tufts are small.

Per com p. 33, com dark, oval, brush as in macula seg.

A pair lateral pale orange or whitish

yellow, broken so absent or bordering the

black patches below. Below the line to the

tufts, blue gray, mottled with black, ^{trace of white in one}

a few, blue gray, mottled with black, a few to

black, unmaculate. The fat black abd

& pinkish at top. Hair moderate, abundant

Calc. .54 78 1.10 1.54 2.1 2.8 3.5 (ex 18)

Tanned .55 .7 1.1 1.5 2.2 3.5 ^{id}

fairly reddish tufted on the back, white

on the sides and often the head tufted.

Color of bill orange with powder blue about

abd. small rounded, on sternaster, post. abd

eg. most rapidly tapering covered with fine

except caud. Color uniform reddish, brown, not

shiny, L & B, ♀ 19 mm. W 5.4 - 7.5 mm

Egg cylindrical, flattened on top & sides, rounded, Fairly dark red mixed with bluish, or 10-11,

below, closely packed in a compact mass and

tong covered with mucus of a brown color

whitish smooth. Diam 5 mm., height 12 mm

Width 11 mm., weight 11 mg. and 11 were re-

duced, July 27, 1922, Cat. No. 7955

Urolophus laevigatus

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~~Bogia at Flathead July 26, 1922~~ ^{High 5.5-6.5} ~~100 mm. long~~

~~W. 5 mm. tail pinkish brown, with black bar 5 d m~~

~~2 bars than the other 4 bearing either long brown~~

~~white d. patches or 3, 4 19 while range at base~~

~~of 3rd ventr. on 2. main all black, thin, long~~

~~shiny, no tracing net, tubercles present on fins, bright~~

~~orange on 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st 32nd 33rd 34th 35th 36th 37th 38th 39th 40th 41st 42nd 43rd 44th 45th 46th 47th 48th 49th 50th 51st 52nd 53rd 54th 55th 56th 57th 58th 59th 60th 61st 62nd 63rd 64th 65th 66th 67th 68th 69th 70th 71st 72nd 73rd 74th 75th 76th 77th 78th 79th 80th 81st 82nd 83rd 84th 85th 86th 87th 88th 89th 90th 91st 92nd 93rd 94th 95th 96th 97th 98th 99th 100th 101st 102nd 103rd 104th 105th 106th 107th 108th 109th 110th 111th 112th 113th 114th 115th 116th 117th 118th 119th 120th 121st 122nd 123rd 124th 125th 126th 127th 128th 129th 130th 131st 132nd 133rd 134th 135th 136th 137th 138th 139th 140th 141st 142nd 143rd 144th 145th 146th 147th 148th 149th 150th 151st 152nd 153rd 154th 155th 156th 157th 158th 159th 160th 161st 162nd 163rd 164th 165th 166th 167th 168th 169th 170th 171st 172nd 173rd 174th 175th 176th 177th 178th 179th 180th 181st 182nd 183rd 184th 185th 186th 187th 188th 189th 190th 191st 192nd 193rd 194th 195th 196th 197th 198th 199th 200th 201st 202nd 203rd 204th 205th 206th 207th 208th 209th 210th 211st 212nd 213rd 214th 215th 216th 217th 218th 219th 220th 221st 222nd 223rd 224th 225th 226th 227th 228th 229th 230th 231st 232nd 233rd 234th 235th 236th 237th 238th 239th 240th 241st 242nd 243rd 244th 245th 246th 247th 248th 249th 250th 251st 252nd 253rd 254th 255th 256th 257th 258th 259th 260th 261st 262nd 263rd 264th 265th 266th 267th 268th 269th 270th 271st 272nd 273rd 274th 275th 276th 277th 278th 279th 280th 281st 282nd 283rd 284th 285th 286th 287th 288th 289th 290th 291st 292nd 293rd 294th 295th 296th 297th 298th 299th 200th 201st 202nd 203rd 204th 205th 206th 207th 208th 209th 2010th 2011th 2012th 2013th 2014th 2015th 2016th 2017th 2018th 2019th 2020th 2021th 2022th 2023th 2024th 2025th 2026th 2027th 2028th 2029th 20210th 20211th 20212th 20213th 20214th 20215th 20216th 20217th 20218th 20219th 20220th 20221th 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On 11/11
Boggy soil, Woods & Brook, about (Shrub) at 2700 ft., 1/2 the hair reddish but as long) Most

44 sp. 8 ad var., w/15 mm. Red book, note
31. ♂ red except G+R, peniles 2.5 mm long
black, white yrs - ♂ 6 mm. + 7 mm. ♂ 6, base
white 1.5 mm. Brush tufts on 5, 6 black on
7, 8 white & a little smaller. Rest. tail defined
yellow & smaller on 3, 4 & 7, yellow on 3, 6, yellow
only as on tail. ✓

W5 | ^(bbd22) ~~grey~~ above, 1/2 ^{grey} ~~grey~~ panels on 2, green
on 1/2, 8 mm., on 5-6, 2.5 mm. Breast grey
on 5-6, grey-green, 2.5, on 7-8 yellowish
1 mm. The same above & back as

♀ ♂ *ludia Victoria* + ♂ *Quva Matisby*,

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and do, 2 sets of eggs. One fertile ^{hatched} ~~hatched~~ in stage III on poplar, Mattheson hatched May 23 1895, the other ~~not~~ ^{July 31, 1895.} 1d 1.2 mm., its description of fertile. Both ~~fertile~~ others hatched 188222 in stage III but being 2 hours the patches later than those day (362 Z)

X gave all larvae with side tufts but ①
a few from few to gray hair. A few had orange red below, black around mouth, tufts & white pale yellow to brown; 2 black, 2 yellow; or 2 and brown tufts white. most ♂♂ red the rest brownish.

Y In side tufts

②

kept them raised a week 1894 some big ♀ with side tufts egg hatched Fall 1894 and ptered out.

Z Mostly all side tufts; some ♀ with ② but as well developed as in X; some better. One has both side tufts black (just 5, 6) no red heads seen. Tufts white, yellow, 2 w brown or the 2 ant. brown or blackish or black in young ones.

Tritomegas modestus?

364

Egg on poplar flat-top in B.Y. Size 2.4 x 2.0 x 1.3
Elliptical, flattened above, below, green, smooth,
made less densely punctured very minutely,
with large irregular reddish patches of purple-red

(purple film)

365

Egg laid by ♀ Hypolepis minima flat-top
soft, 8.2 subcircular, much flattened on the
basal side, convex & evident, reticulated even
under the lens, shiny dark lead color, with
a slight mottled green cast; diam. 6 mm. Laid
loose & separate so that they roll around.

Entomophaga Holotype. Black shaggy; a
brown body mixed below by longitudinal
folds which run transversely. A clear
distinction between blackish brown
and a dark brown from near the head to back
of the middle, above & below transparent.

*Underfeet, abd. covered with broad rounded reticulation which leave between them large shallow
rounded transverse depressions. ✓

Eggs by ♀ Ceratophidiaspaldingi Aug 4 '92. Holotype. Eggs by ♀, pair of fine large Scidiidae in coll. Oblique spindles, spec'd were placed on the nail S.H.T., taken in cotton July 30, 1892. Laid on smooth, smooth, shiny pale pink, not obviously reticulated, though the surface is somewhat irregular; diam. .6 mm., but twice smaller than the H. leucospis egg. Laid perfectly loose. Hatched Aug 12. All round, smooth shiny, more or less brown, ocelli black; w. 25? long, 20 mm. max., not so fat as pupa; the skin distinct, blackish, no incision evident, fat removed but yolk reddish, darker on the back. Looks like a little antipus.

Eggs by ♀, pair of fine large Scidiidae in coll. oblique spindles, spec'd were placed on the nail S.H.T., taken in cotton July 30, 1892. Laid on smooth, shiny board, loose & scattered on the work case. Found about 135, but none of robust, but on the floor. Elliptical, much flattened or a little inflated on the sides, slightly rounded on one of the small ends which is the top & contains entirely the small pale micropyl; uniform substance brown, like acacia seeds, smooth under the lens. Dimensions 25 x 55 x 30 mm. Aug 1-4, '92. Under 1/2 in. obj. they remain perfectly smooth, though not shiny.

63 Sept 17 No 2+

coll. 32 46 ♂ 96 1.4 & nos 357 Black tail 24 mm Calc. 7 H 11 1.7 2.8 4.2 9.1 16.6
 2000 35 ♂ 70 1.00 1.4 ^{red, not like all others} Found 6 H 1.8 2.6 4.2
~~7500~~
 The last 368 = 35% ^{more white, speckled, etc.} ^{except the} 368
^{white, speckled, etc.} ^{tail, which is black} ^{tail, which is black}
 Eff of 2 superimposed, ^{cochilla} ^{tail, which is black} ^{tail, which is black}
 Considered, was just flat at base, smooth,

very pale yellow, cream, green in patches, then
 reddish brown and a pinkish blue patch,
 w. some yellowish green, with a large
 black and a single pale bar on the
 shiny black, and by the way, green below,

I think the same, w. some brownish brown,
 except that the last each been several times
 ran black without the usual green or
 blue, and now the color is brownish black.

13 Sept 22 Coll. 368 black shiny back, pink

and black, with large blackish, a broad
 band, very dark shade, across the back,
 nearly white & a lateral blue, seen above, to
 either hardly the plant, very black, large white

right from 4d along the back, seen below, blue

black, the rest shiny hair about 1/2 inch long

rather soft white & blackish mixture, which
 predominates, but in 2 or 3 to around greenish

Several longer stiff white hair from anterior

nos 5 Sept 7 to begin, and the hair is black and greenish
 white, but the black which has been the hair on the
 sides black, and 1/4 mm long.

On Q macroura from Argentina

Flat-tailed Sept 15 1894 white,
 broad pinkish, w. green, Ht about 2'
 a thin
 wavy
 mottled with brown reticulations
 the band more edged white 1.1 mm
 below, long all soffened out
 pinkish brown on a pale, ^{long}
 greenish dorsal s-v, pale d.
 w-d band white, trace dots
 of sd: lat dots yellow
 faint, upper stiff line
 brown-red above, pinkish
 white below.

Coll. 368 same below at base
 of a leaf.

13 Sept 22 Coll. 368 same below at base
 of a leaf.

Coll. 368 same below at base
 of a leaf.

13 Sept 22 Coll. 368 same below at base
 of a leaf; median rather deep, but not
 the head
 1.1 mm, but strong; a number

6. Oct 17 No. 24

all 32 44 51 96 1.4 & egg 354 Black tail 2-3 mm
downy 35 40 50 1.02 1.4 from 354 abd. not pink all a
little darker (2) white streaks with black dots. all
white with pale blue, greenish, greyish, white and blue
mark whitish. Egg 368 = 354 (greenish) across the
Egg 2 Superficial cleft, uterine, Aug. 6. 192.
Caudal, no dots just at base, smooth,
shiny pale yellow; diam. 9 mm. In bath
with light blue and some white, deliquescent
at point. white, numerous, scattered very low
& black and one single pale blue dot at
shiny place. low up & few greenish yellow

2. The old name, with some slight change,
was Vito - the most each year several fluffy
hair blocks which mixed together to a
blockish red color changing with age to a
dark brownish black.

113 page 46 - blotched shrub, 1-2 m. tall
with thick, greyish blackish bark, a band
of orange red shade of the bark
near ground. L. & latitudinal. Bark smooth,
yellowish, the surface being streaked with
^{red & yellow}
by the 4th day after hatching, i.e. from body entirely
black, the white skin, hair, abdominal, and
rather soft white of the epidermis (the latter)
predominating, but on 2-5 d. the normal orange
Several longer strips white have been seen.
W. 5 Sept 7 to 10th, as the birds 1-2 m.
2-5 m. tall, the front all white, the top half
yellowish, but the tail and white on the wing, the
rest black, and the rump orange.

~~Key Garrison~~

~~✓ Cannon~~

~~✓ Firehouse~~

On the side of the plant
are several long, narrow, linear leaves, which
are all parallel-veined. The upper ones are
narrower & longer, & have a distinct midrib.
The lower ones are broader, & have no midrib, but
the veins are clearly defined. The lower ones
are all parallel-veined, & have a distinct midrib,
but the upper ones are all parallel-veined, &
have no midrib. The lower ones are
all parallel-veined, & have a distinct midrib,
but the upper ones are all parallel-veined, &
have no midrib.

— feet blackish, and claws tipped.
The anal feet are most elongated, ^{and} we used
to call them, but they are a small soft tip being
July 18 at sea. Dorsal, always large for
the body, held out nearly flat, scarcely upright.
The line on the side is red brown, bordered on both sides
with yellow ^{and} is continuous with the stippled
line from the eye in the normal position, & it
does not enter the water ^{the} head terminating
in a black point as they ^{do} grow yellow with
two small red dots below. Bl. 2.6 mm. Body
yellow, including the feet which are ^{the} ones
dark striped with blackish, the ^{posterior}
and others ^{posterior} pale yellow, ^a ^{posterior}
and segments small, larger the first two indeed
and the second ^{posterior} ft. above is a dark ^{posterior}
waved ^{posterior} white line; a lateral con-

Dear Dr. T. C. Peck - Your favor from Clinton
Co., N.Y. recd. June 25, 1893 & answered.

acc 7 1.1 1.7 2.8 4.2 6.6

70000 7 11 1.8 2.7 4.3

370

Heteromys *marmosae* or rock rat, *Heteromys*
diff., 1919. Eggshell flat & hemi-
pherical, pinkish at base, thin & easily
broken, round young, smooth, no teeth
of any size. Stomach full of large whole or
whole or broken shells of small size.

Zarpa stage I lid calcareous, higher than wide, flat
in front, smooth shiny, pale brownish yellow
with a few minute dark spots, covered with
a water of blood, the exuviate on top, W. J. man
body cylindrical, shiny, translucent, on water
of a pair of divergent fleshy processes, each
tipped with a hair about 3 mm long, black
at tip & red at base. The anal ^{not from} feet, one prolonged
into a pair of stenopod 5 mm in length,
setose, pale brown at base, the other half black
with a broad white ring. Body ^{pale} greenish,
a suboblique brown band, emphasized
on 5, 7 & 11. A very obscure yellow oval band
at the junction of the head and body, and the black band
2 has a red margin in outline, before becoming
white, rounded and stippled on center, pale
green, pale yellowish green, mouth brownish.

yellowish, with brown body, yellowish markings
on the more prominent forms shorter, fine at
base, and upper lip smooth, conical. Tail 5.5 mm
long, pale with a broad deep red brown band
stripped with same color. Extremities thickened up
slightly. Head wider than d. band before cov-
erings, red-brown, widened into a diamond
shaped patch on 7 + slightly over 8, faintly
bordered with yellow and ^{body} a yellow band
running along top of back ^{body} to vertex of
head, a dark blue-grey ^{body} on either side
most bright ^{body} grey, with 3 longitudinal, split bands
with a blue-grey ^{body} band about 3 mm wide,
horizontal: first one on the back, second
on vertex: just below on the back, third
marked with blue-grey border to tail an 6 mm
long, the blue-grey ^{body} ^{tail} ^{anterior} pointed.
Later the band is red brown on the anterior
side ventrally, the d. band is black bordered
with yellow & there are a series of oblique lateral
yellow bands 10 in number, each in 2 segments
& running long the above to form an oblique
yellow d. line which is close to the eye as
border of the dorsal band. Testis white.
Tail and upper pale pinkish, through deep crimson

Coll. 7 11 1.7 2.8 4.2 90166

Coll. 7 11 1.8 2.7 4.3

570

~~61174~~

beneath of a weathered or rock outcrop cliff, no. 9. Aug. 9, 1892. Eggshell Flat, Nevada. A small, pale yellowish green, smooth, conical. Tails 5.5 mm. Phrenic l., gills pale at base, then tan at top, pale in a broad deep red brown annulus just above shade green, becoming tan at tip of mouth. Diam. 13. Notched at base, hole on one side of it. Underlip ^{and around base} yellowish ~~shallow~~ depression from larva stage. No cecidite, higher than wide, white in front, smooth shiny, pale brownish yellow with a line on the each side, down to, on to water of head the curved on top. W. 7 mm. Body, yellowish pale, shiny, rounded, on water & a pair of downward fleshy processes, each tipped with a hair & above, rounded, black at tip and at base. The angle ^{at 5 mm} is prolonged into a pair of sternal 5 mm in length, setose, pale brown at base, the other half black with a broad white ring. Body, greenish, a suboblique brown d. band, emphasized on 5, 7 & 11. A very obscure yellowish band extending nearly along the whole width of body in outline, higher than width, bounded, not separated at water. The pale yellowish green, rounded on

water, w. 11 mm. Body, as before, the marks water and greenish brown, black, pale d. same. Head, red lips smooth, conical. Tails 5.5 mm. Tipped with same color. Extends deep down. Head ad. the d. band becomes con- tinuous, red brown, widened into a diamond shaped patch on 7 & slightly on 5, faintly bordered with yellow; there is a ^{wide} yellow band running from the ventral section to vertex of head, uniform in width. Horns & cecidite from Aug 15 fed wounded & flat in form, pale green with a broad yellow band on each side, to water; ventrally black; w. 18 mm. The body is now up as in the last stage, the last an 6 mm long, the hairs short, close together & pointed. Late. The band on head is folded down on the anterior side nearly to vertex, the d. band is black, bordered with yellow, then are a series of oblique lateral yellow lines, 12 in number, each in 2 segments, & running together above to form an obscure yellow dot line, which is close to the edge on both of the dorsal bands. Total width whitish. This uniform pale pinkish, then a deep crimson

will be given to me
so will be glad to see
you again. I hope
it is now well with you
H. W. Brewster

note by 23 hd rounded & flat in front, higher than wide; a strong ~~or~~ ^{thin} vertical band each side from behind the black cells, very rounded, full, not bilobed; pale leaf green at the top, yellow, bordered in front with a thin brown border, its front edge angulated inward about the middle, from the which width 2.7 mm. 2 or 3 dark red tubercles on the ant. edge of 2, close together, each tipped with a hair. Stomaphod 5.5 mm long, pale without with a brown line on the inner side polygonated as in the early last stage except that the red brown center of the d. band is more reduced, colored darker down on 5, 7 & 11, the oblique lateral lines are not conflucent above the sides, are heavily black speckled, the d. band becomes dotted, at 1 white, the 2 post oblique lines become dotted, represented only by an absence of the black speckles in the ant preceding them, on 10 & 11, a whitish base is a yellowish subtley. Up to joint 13. The oblique line is more distinct than the others (they form a series of lateral and broken stripes in the form of a narrow ^{and} ~~wide~~ ^{and} ~~wide~~ band) the band on the head has a day and night

portion with yellow, the remainder grayed, pale. With left 3 hd oval, much narrower than wide, each side from behind the black cells, very rounded, full, not bilobed; pale leaf green smooth, shiny, under the line faintly articulated. A broad band, with a thick tail on its inner side, color from yellow to nearly red-brown marked with pale brown & bordered with yellow on the post. side. The hd is held with the pectoral forward so that the band is II with the lateral of this line on the body. Mouth whitish. The jaw tipped black; W. 4.3 mm. Body higher than wide, somewhat D in shape & tapering from the head to j 13 which is small. Stomaphod absent, thin whitish vase-shaped, & held close to the body, about 1 mm long. Cervical pores absent, represented by tiny brown dots close together, each bearing a fine hair. Bed pale leaf green, thickly covered with little purple black speckles which segregate into short crinkled or cushion lines, as seen under a lens. They are also on the sides in 10 oblique bands, which each extend over 3 segments, from the d. to the 3rd region. Some of them are marked faintly with a line, the one which crosses the fourth & 5th distinct & yellow, 5-6 line on 11-13. Dorsal band widened in 2 ant., also only on 7; red brown marked with whitish & bordered with yellow, marked in darkish shades on 2, 5th 7 & 11. Sept. 17 Wallowed

Cap 2 1903

202. S. A. C.

371

15

Harrisia americana wet. or wood vine, Boston Aug 19, 1892. Hd. retracted & coiled with 2. Body flattened side ways & with a distinct white ridge. 4 rows of low flattened areas, especially ventrally, ground & hairy common on calyx short fine hairs & a few longer white hair from the extremity. ① rd ② lat. ③ 5-5 3-3 & ④ Olson area base of legs. The 3rd & 4th hardly bright yellow banded between each joint with blackish & again across the middle with dark, including the white, with purple brown. The bands all form a broad lateral purple brown band, which runs the whole length across the 5-5 ventrally & on the white 5-5 again in 4-5. 5-5 rings 6-13 white, as is also the ventral & legs though more gradually shaded especially post 10 on the ridge. 10-12 feet long. Hd. black, 10-12. The long portion of the body about 10 mm. &

372

Alypia octomaculata on wood vine, very Boston, Aug 23, 1892. Hd. very slightly dilated, mouth projecting above, orange brown, obscurely spotted with brown with distinct black spots. a large 1 below outer of each lobe, below the 3, the middle on lowest mouth small 1 before the black cells, 2 on each side of the upper part of clypeal section & each side of middle of clypeum, each bearing a pale hair. width 2.5 mm. Body enlarged on a smooth but not shiny nor granular, each bearing a single pale hair arranged perfectly normally. (4) with small, behind & a little below the spiracle. No other hairs. Body bluish white with 8 narrow brown black bands on each segment, sometimes merging with the black bands. 2 d, a trans band on 5, 6, 7 & 12 Hd. black, 10-12. The long portion of the body with faint ones on 8-11 dark orange as also anal pl. 6 bases of all the legs. & very distinct white 5-5 band, broken into a series of irregular patches nearly bordered with black, & faintly 5-12, feet black, ventral largely black most distinct between 11 & 12.

373

~~Egg of Colias belvii from J. H. Lembert. Ypsenish Cal.~~ spindle shaped, a little contracted just before one end, with low longitudinal & transverse ridge which divide the surface into shallow rectangular parallelograms. L 1.3 w. .6 mm. Color white in the alcohol.

Food plant. Found buckleberry

Larva in alcohol. Hd 2 mm, rounded, very slightly lobed, slightly articulated with horn, no other marks. Mouth part horn; ocelli orange black. An even pinkish white d. line, very narrowly black bordered & tapering a little at each end, obsolete on 2, 3 & 13. A broader, even, s-d line, nearly white on the edges salmon colored centrally, bordered above by a black line shade on the ant. part of each seg. A similar very even sub-sy band, pinkish centrally; the bordering black shade around the spinacles are larger & more diffuse than those three thin above the s-d line, but very faint on the two segs. A faint, even, lateral band, paler than the ground color which is probably some shade of green in living specimen. Spinels white, that of 12 larger than the others. Tho. feet testaceous.

Hd 2.5 round horn. Body whitish, minute dotted in spots. Feet normal.

374

Sciodonta belinata on elm, Roxbury, Mass. Sept 3, 1892. Hd elliptical, rounded, flat in front with a number of coarse black hair. Green with a white line from before ocelli to rear vertex edged in front with dark brown; mouth whitish. Antennae pale yellow, jaw horn; ocelli black w 2? mm. Body enlarged slightly, d. at 5 & 12, 13 anal, the anal feet not used, aadie long & divergent. Coarse hairs arranged as wants in Africa; (3) very oblique, (4) atg. post. On 5 & 12 ♂ has cervical elevated dark red vase & slight no, but yellow on 2-4. Body green, a narrow yellow dorsal line, bordered with purple from 2-4, this border divergent on 2, ending in line with the bands on the head; a broad whitish s-d band, marked with yellow on its upper half & narrowly edged above with purple horn. It is contiguous to the d. line till 5 when it passes a little down to the s-d position, curves up on 12 to meet the red tubercle, then down again to anal foot. Lateral begin ^{dotted} spotted with maple brown

	cole	.576	.82	1.19	1.72	2.5	wt. .69
found.	-	-	-	1.2	1.8	2.3-5	

	cole	.45	.75	3.75	(1.65)	2.5	wt. .66
found.	(47)	(72)	(1.1)				

with a narrow sty. yellow line. Spines reddish. Anal feet with a brown line on the outer side. Feed green.

Molt Sept 10 Aldas before but the line bordering the white band is black; median suture depressed w. 3.3 mm. Coarse black setae singly ① next d; cent, on 5-12, a line 2-4; ② sd ③ lab. ④ sty post, ⑤ A.S., a line with ⑥ on 2-4 ⑦ 8-9, with some shorter hair on base of legs. ① with dark red concal lines on 5-8 & 12 these or 12 can be moved by lava so as to make the hairs cross each other. Lateral dorsum suffused with yellow, space between sd line & sty line with white, whole lateral & ventral area thickly dotted. Feed green. Tinged with reddish, anal feet red-brown

Ichetynna var? in separate house, aggregated in tight, on little willow in front yards on Blue

Hill Ave. Roxbury, Sept 8, 1892. (Shells 1.2, 1.8, 1.8

Stage hd 1.8 Hd round, full, pilose, blackish brown, pale above the mouth, slightly shiny. Body largely obscure purple-brown, the color forming a triple A. line & covering the whole lat. area to the feet. Dorsum grayish white between the lines, & the color also forms a very narrow, waved gerinate sd line, a dark brown lateral line & minute mottling all over the brown area, only distinct without a lens on 5-9 area. Tha. fat black, abs. concolor with body. The tubercles are very inconspicuous, but now ② is marked by little yellow dot the whole length. These hair are fine & short, pale, those arising from the body very much shorter than the ones from the tubercles. Another ① & ② both yellow. On 5 & 12 the purple brown extends over the dorsum, & others esp. are a little enlarged spines black. Want ① ② ③ ④ ⑤ yellow but obscure. ④ Sty post, not particularly smaller

PG 93

Eggs on willow hatched June 19. Coffeewren of hill-sides
M. S. G. population late May, 5, 12 & 13 feet. D. 16-18.
Hd. 1.1 July 7. Sides & 50% back brownish olive color with soft
brownish washes, a distinct (so called) orange-yellow patch on each side
measured 1.3. Rest of body blackish, throat, around eyes, on front
depressed, having distinct yellowish brown spot.
Sting Hatched June 19. D. 16-18. 1/2 of back
blackish. Body olive greenish, with a
narrow dark band across middle. The
tail black with a white brown line.
Office warbler of forest floor May 20.
Mottled olive brown above, with white below
black. The wings and tail feathers are lined with
white. The white is in patches, like a bird with
yellowish brown wings, white on the back, the back
the white of the front and neck, also white
purple brown feathers with a little yellow feather
but neck are small white very distinct. There is
little yellow stars in a line on the back. Each breast
one has a thin white stripe in middle, joined
together. Black interspersed with white feathers,
another at 2.5 from the white on left side of the
palace very nearly others. The bill long, the yellow
feathers few still short.

egg bears placenta of last season. Small shrub, 2 m. tall, with
large green lvs. of broadish oval shape. Flowers pink,
corolla white streaked, sweet-scented, corolla curved, 2 in. long.
After my first visit now about 10 years old, I have seen it
hanging over a path of 100' width, with a large colony of D. grisea
bores into its stem. The tree has a very strong
taste, like that of the common tobacco leaf. The flowers
are very fragrant.

est. ~~are~~ elevated, constructed centrally
from all sandy, not granular material.
Sp. II same W. 7 mm. Body flattened under the
tail, the dorsal spine slightly raised
^{comes from below}
about 1.2 times, giving the appearance of the
lateral area all deep brown here. A h-
ump black but not so distinct & covers
the face. From the scales an irregular band
extending over the mouth and from
the lateral on the back
with elevation on the head
The body median stripe brown ventrally. The sides
of the body less flattened before, slightly more
so at the base, black with some white
at the high. Slightly black with some white
on the head.
eggs dark purple pink, pale around
the dorsal, slight change.

Imperial Sept 29 1915
and 1916 -

